

NAME OF WORK:- RESTORATION OF ROAD
CUT PORTION DONE BY BWSSB, BESCOM,
GAIL, KPTCL AND OTHER AGENCIES "ON
BACK TO BACK ROAD RESTORATION BASIS"
IN BRUHAT BENGALURU MAHANAGARA
PALIKE LIMITS IN YELAHANKA ZONE.

(Restoration of water supply road cut
portion done by BWSSB, "on back to back
road restoration basis" at Vinayakanagara,
Dwarakanagara, Defence, Anandanagara
and Balaji Layout in Ward No. 5
Byatarayanapura sub division)

(Quality Control Reports)



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-07-01-04 Date: 01-04-19

Project Name : Restoration of Road Cut Portion done By BWSSB, BESCOM, GAIL, KPTCL and other Agencies "On Back to Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike Limits in Yelahanka Zone.

Name of Work : Restoration of water supply road cut portion done by BWSSB, "on back to back road restoration basis" at Vinayakanagara, Dwarakanagara, Defence, Anandanagara and Balaji Layout in Ward No. 5 Byatarayanapura sub division

Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar Road, Yelahanka, Bangalore-560064

Customer's Reference : EE/TEC/WO/12/2018-19

Date of Receipt : 30-03-19

Sample Type : Fine Aggregate(M Sand)

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 30-03-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	23	23	2.3	97.7	90-100	90-100	90-100	95-100
3	2.36 mm	49	72	7.2	92.8	60-95	75-100	85-100	95-100
4	1.18 mm	221	293	29.3	70.7	30-70	55-90	75-100	90-100
5	600 micron	200	493	49.3	50.7	15-34	35-59	60-79	80-100
6	300 micron	212	705	70.5	29.5	5-20	8-30	12-40	15-50
7	150 micron	223	928	92.8	7.2	0-10	0-10	0-10	0-15
8	Pan	72	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-07-01-04

Date: 01-04-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.54	—
2	Specific Gravity	2.57	—
3	Material finer than 75 micron(%)	6.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

ಇತರರ ಅಧೀನದಲ್ಲಿ
ಇ.ವಿ.ಎಂ.ಪಿ. ಪ್ರಾಧಿಕಾರದಡಿ

ಇತರರ ಅಧೀನದಲ್ಲಿ
ಇ.ವಿ.ಎಂ.ಪಿ. ಪ್ರಾಧಿಕಾರದಡಿ
ಇ.ವಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24



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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2019-07-01-04 Date: 04-04-19

Project Name : Restoration of Road Cut Portion done By BWSSB, BESCOM, GAIL, KPTCL and other Agencies "On Back to Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike Limits in Yelahanka Zone.

Name of Work : Restoration of water supply road cut portion done by BWSSB, "on back to back road restoration basis" at Vinayakanagara, Dwarakanagara, Defence, Anandanagara and Balaji Layout in Ward No. 5 Byatarayanapura sub division

Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar Road, Yelahanka, Bangalore-560064

Customer Reference : EE/TEC/WO/12/2018-19

Date of Receipt : 02-04-19

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 02-04-19

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	318	318	2.9	97.1	95-100
22.4	2249	2567	23.3	76.7	60-80
11.2	2160	4727	43.0	57.0	40-60
4.75	2249	6976	63.4	36.6	25-40
2.36	1615	8591	78.1	21.9	15-30
0.6	614	9205	83.7	16.3	8-22
0.075	1322	10527	95.7	4.3	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2019-07-01-04 Date: 04-04-19
Project Name : Restoration of Road Cut Portion done By BWSSB, BESCO, GAIL, KPTCL and other Agencies "On Back to Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike Limits in Yelahanka Zone.
Name of Work : Restoration of water supply road cut portion done by BWSSB, "on back to back road restoration basis" at Vinayakanagara, Dwarakanagara, Defence, Anandanagara and Balaji Layout in Ward No. 5 Byatarayanapura sub division
Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar Road, Yelahanka, Bangalore-560064
Customer Reference : EE/TEC/WO/12/2018-19
Date of Receipt : 02-04-19
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 02-04-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.4	300.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.7	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2019-07-01-04 Date: 04-04-19
Project Name : Restoration of Road Cut Portion done By BWSSB, BESCOM, GAIL, KPTCL and other Agencies "On Back to Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike Limits in Yelahanka Zone.
Name of Work : Restoration of water supply road cut portion done by BWSSB, "on back to back road restoration basis" at Vinayakanagara, Dwarakanagara, Defence, Anandanagara and Balaji Layout in Ward No. 5 Byatarayanapura sub division
Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar Road, Yelahanka, Bangalore-560064
Customer Reference : EE/TEC/WO/12/2018-19
Date of Receipt : 02-04-19
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 02-04-19

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	25.2%	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2019-07-01-04 Date: 10-04-19

Project Name : Restoration of Road Cut Portion done By BWSSB, BESCOM, GAIL, KPTCL and other Agencies "On Back to Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike Limits in Yelahanka Zone.

Name of Work : Restoration of water supply road cut portion done by BWSSB, "on back to back road restoration basis" at Vinayakanagara, Dwarakanagara, Defence, Anandanagara and Balaji Layout in Ward No. 5 Byatarayanapura sub division

Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar Road, Yelahanka, Bangalore-560064

Customer's Reference : EE/TEC/WO/12/2018-19

Date of Receipt : 09-04-19

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 09-04-19

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C, in 1/10th mm	62	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	242	Min. 220°C
	Fire point, °C	276	

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TEST RESULTS OF GRADATION FOR OPEN GRADED PREMIX CARPET

Lab ID : CP-RW-2019-07-01-04 Date: 15-04-19
Project Name : Restoration of Road Cut Portion done By BWSSB, BESCO, GAIL, KPTCL and other Agencies "On Back to Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike Limits in Yelahanka Zone.
Name of Work : Restoration of water supply road cut portion done by BWSSB, "on back to back road restoration basis" at Vinayakanagara, Dwarakanagara, Defence, Anandanagara and Balaji Layout in Ward No. 5 Byatarayanapura sub division
Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar Road, Yelahanka, Bangalore-560064
Customer Reference : EE/TEC/WO/12/2018-19
Date of Receipt : 13-04-19
Type of Mix : Open Graded Premix Carpet
Date of test : 13-04-19
Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
22.4	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	100
9.5	416	416	8.3	91.7	90-100
4.75	2178	2594	51.9	48.1	35-51
2.36	1023	3617	72.3	27.7	24-39
1.18	518	4135	82.7	17.3	15-30
0.3	378	4513	90.3	9.7	9-19
0.075	158	4671	93.4	6.6	3-8
PAN	329	5000	100.0	0.0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR PREMIX CARPET

Lab ID : CP-RW-2019-07-01-04 Date: 19-04-19

Project Name : Restoration of Road Cut Portion done By BWSSB, BESCOM, GAIL, KPTCL and other Agencies "On Back to Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike Limits in Yelahanka Zone.

Name of Work : Restoration of water supply road cut portion done by BWSSB, "on back to back road restoration basis" at Vinayakanagara, Dwarakanagara, Defence, Anandanagara and Balaji Layout in Ward No. 5 Byatarayanapura sub division

Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar Road, Yelahanka, Bangalore-560064

Customer Reference : EE/TEC/WO/12/2018-19

Date of Receipt : 13-04-19

Type of Mix : Open Graded Premix Carpet

Date of test : 13-04-19

Physical Requirements for Coarse Aggregate for Premix Carpet

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.1	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	9.6		
Strength	Aggregate Impact Value	21.3	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.52	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.35	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2019-07-01-04 Date: 19-04-19
Project Name : Restoration of Road Cut Portion done By
BWSSB,BESCOM,GAIL,KPTCL and other Agencies "On Back to
Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike
Limits in Yelahanka Zone.
Name of Work : Restoration of water supply road cut portion done by BWSSB, "on back
to back road restoration basis" at Vinayakanagara, Dwarakanagara,
Defence, Anandanagara and Balaji Layout in Ward No. 5
Byatarayanapura sub division
Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar
Road,Yelahanka,Bangalore-560064
Customer Reference : EE/TEC/WO/12/2018-19
Date of Receipt : 13-04-19
Type of Mix : Open Graded Premix Carpet
Date of test : 13-04-19

Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.5	Minimum Retained Coating 95%
2	99.5	0.5		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2019-07-01-04 Date: 19-04-19
Project Name : Restoration of Road Cut Portion done By BWSSB, BESCO, GAIL, KPTCL and other Agencies "On Back to Back Road Restoration Basis" in Bruhat Bengaluru Mahanagara Palike Limits in Yelahanka Zone.
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Agency : R Satheesh (Sathya Constructions), #600, Down Bazaar Road, Yelahanka, Bangalore-560064
Customer Reference : EE/TEC/WO/12/2018-19
Date of Receipt : 13-04-19
Type of Mix : Open Graded Premix Carpet
Date of test : 13-04-19

The results of the tests conducted on the Premix Carpet sample are as follow				
Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.56	10.55	8.2KN(min)
2	Marshal flow at 60°C, mm	3.25	3.28	2-4
3	Percent air Voids	4.56	4.25	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.82	13.6	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.2	69.3	65-75
6	Density, g/cc	2.26	2.28	—

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